

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 11/29/2004

APPLICATION NO.	FILING DA	\TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,051	07/11/2003		Mau Shin Frank Yim	926556-94490	7648
75	90 1	1/29/2004	EXAMINER		INER
Robert F. I. Conte				BERHANE, ADOLF D	
Barnes & Thorr	iburg				
Suite 4400	· ·		ART UNIT	PAPER NUMBER	
One North Wacker Drive				2838	
Chicago, IL 6	0606-2809				

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antique Comment	10/620,051	YIM, MAU SHIN FRANK				
Office Action Summary	Examiner	Art Unit				
	Adolf Berhane	2838				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replet NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed vs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	2b)⊠ This action is non-final.					
,— ,,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 11-15 is/are rejected. 7) Claim(s) 2-10 is/are objected to. 8) Claim(s) are subject to restriction and/or 	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		Patent Application (PTO-152)				

Application/Control Number: 10/620,051 Page 2

Art Unit: 2838

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, and 11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Lavin et al. (5,909,360).

Lavin et al. discloses an uninterruptible power supplies in Figs. 1, 3, 4 and 7A-7C. Main transformer (5) having a primary winding (4) and a secondary winding (6 & 7), a high voltage switching circuit (3) comprising a DC high voltage bus (output from 3), a high voltage switch (15), and an AC input power being coupled to the primary winding (4) through a rectifying circuit (diode bridge) and said DC high voltage bus (output from 3) at least one low voltage switching circuit comprising a battery (10), a low voltage switch (9) being coupled to the positive pole of the battery (10) through a diode (12), and a tap L from the secondary winding (6) of the main transformer (5); and a pulse width modulator unit (8) for controlling the high voltage switching circuit (3) and low voltage-switching circuit (11).

Application/Control Number: 10/620,051 Page 3

Art Unit: 2838

Allowable Subject Matter

4. Claims 2-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: None of the cited prior art disclose or teach a switching power supply with the number of turns N_L from the tap L to the reference ground determined by the equation $N_L = V_{Bmax} N_H/V_{Hmin}$.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Stevens discloses uninterruptible power supply with energy control.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/620,051 Page 4

Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adolf Berhane Primary Examiner Art Unit 2838